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**City of Portland Gula Pump  
Station Pressure Line  
Rehabilitation Project  
Record Drawings**

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# GULA PUMP STATION PRESSURE LINE REHABILITATION PROJECT

## PROJECT NO. 7922

### LEGEND

|  |                                     |  |                                    |
|--|-------------------------------------|--|------------------------------------|
|  | CATCH BASIN                         |  | RAILROAD STRUCTURE                 |
|  | FIRE HYDRANT                        |  | UNIDENTIFIED UTILITY OR OBJECT     |
|  | WATER VALVE                         |  | EXISTING SANITARY SEWER            |
|  | WATER METER                         |  | EXISTING INTERCEPTOR SEWER         |
|  | MAIL BOX                            |  | EXISTING FORCE MAIN                |
|  | SIGN OR POST                        |  | EXISTING PUMP STATION              |
|  | WATER                               |  | EXISTING STORM SEWER               |
|  | SWAMP                               |  | EXISTING COMBINED SEWER            |
|  | TELEPHONE MANHOLE                   |  | EXISTING SANITARY MANHOLE          |
|  | TELEPHONE PEDESTAL                  |  | EXISTING STORM MANHOLE             |
|  | POWER VAULT                         |  | PROPOSED SANITARY SEWER            |
|  | POWER TRANSFORMER                   |  | PROPOSED STORM SEWER               |
|  | POLE ANCHOR                         |  | PROPOSED INTERCEPTOR SEWER         |
|  | END OF CULVERT                      |  | PROPOSED FORCE MAIN                |
|  | AIR VALVE MANHOLE                   |  | PROPOSED PUMP STATION              |
|  | DISTILLING MANHOLE                  |  | PROPOSED SANITARY MANHOLE          |
|  | SAMPLING MANHOLE                    |  | PROPOSED STORM MANHOLE             |
|  | CLEAN OUT                           |  | SOIL TEST BORING                   |
|  | WATER MANHOLE                       |  | SOIL TEST BORING W/ PIEZOMETER     |
|  | WATER BLOWOFF                       |  | SOIL TEST PIT                      |
|  | POWER POLE                          |  | EXISTING DIVERSION MANHOLE         |
|  | LIGHT                               |  | PROPOSED SEDIMENTATION MH AND SUMP |
|  | POWER POLE W/ LIGHT                 |  | INSIDE DROP MANHOLE                |
|  | REGISTRATION TICK TO TOPOG. OVERLAY |  | OUTSIDE DROP MANHOLE               |
|  | FENCE                               |  | PERMANENT PLUG                     |
|  | RETAINING WALL                      |  | BENCH MARK                         |
|  | GUARD RAIL                          |  | SERVICE LINE PIPE (HOUSE BRANCHES) |
|  | EDGE OF PAVEMENT                    |  | SEPTIC TANK                        |
|  | CURB                                |  | CESS POOL                          |
|  | EDGE OF DRIVEWAY                    |  | PROPOSED STORM INLET               |
|  | CONCRETE PAD                        |  | CONTROL POINT                      |
|  | TREE                                |  | IRON PIPE OR IRON ROD              |
|  | DITCH OR STREAM ; LAKE              |  | PROPERTY LINE                      |
|  | WATER LINE                          |  | PERMANENT EASEMENT                 |
|  | GAS LINE                            |  |                                    |
|  | ELECTRIC UG                         |  |                                    |
|  | TELEPHONE UG                        |  |                                    |
|  | PERMANENT PLUG                      |  |                                    |

### GENERAL NOTES

- THE LOCATIONS OF EXISTING UTILITY LINES SHOWN ON THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE SOURCES AND SUPPLEMENTED BY FIELD SURVEY, BUT ARE TO BE USED FOR INFORMATION PURPOSES ONLY AND THE ACCURACY IS NOT GUARANTEED.
- ON-SITE CONSTRUCTION PRACTICES SHALL CONFORM TO THE OREGON STATE MANDATED EROSION CONTROL REQUIREMENTS FOR THE COLUMBIA RIVER BASIN.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS.
- ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON CITY OF PORTLAND DATUM-1.375=USC&GS DATUM.
- PIPELINE LOCATION SURVEY DATA WILL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.
- PROJECT LOCATION:  
THE PROJECT WORK AREA IS LOCATED IN THE WILLAMETTE RIVER AT APPROXIMATELY RIVER MILE 7, JUST UPSTREAM OF THE BURLINGTON NORTHERN RAILROAD BRIDGE. IT IS SITUATED IN THE SE 1/4 OF SECTION 12, TOWNSHIP 1 NORTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN AND IS LOCATED ADJACENT TO THE FORMER MCCORMICK & BAXTER CREOSOTING COMPANY SITE AT 6900 N. EDGEWATER STREET. THE AREA IN WHICH THE PRESSURE LINES ARE EXPOSED IS FROM APPROXIMATELY 30 – 100 FEET FROM THE NORTHEASTERN SHORELINE, AND IN WATER DEPTHS RANGING FROM APPROXIMATELY 10 – 30 FEET.
- SITE ACCESS:  
THE SITE IS ONLY ACCESSIBLE FROM THE WILLAMETTE RIVER. THE CLOSEST PUBLIC ACCESS POINT IS THE CATHEDRAL PARK BOAT RAMP BENEATH THE ST. JOHNS BRIDGE. ENCLOSED IN THE PROJECT SPECIFICATIONS, AS SUPPLEMENTAL INFORMATION IS AN APPLICATION PACKAGE FOR A NON-PARK USE PERMIT. THIS INFORMATION IS PROVIDED IN THE EVENT THAT THE CONTRACTOR DOES NOT POSSESS OR HAVE ACCESS TO AN ALTERNATE ACCESS POINT, AND WOULD LIKE TO USE THE CATHEDRAL PARK AREA FOR STAGING.

### SHEET INDEX

| SHEET | TITLE                                       |
|-------|---|
| G01   | COVER SHEET, LEGEND, NOTES AND LOCATION MAP |
| C01   | PROPOSED LIMITS OF ARMOR ROCK               |
| C02   | TYPICAL PILE CAP & GRAVEL SECTIONS          |
| C03   | TYPICAL SECTION WITH PILE CAPS              |
| S01   | TYPICAL PILE BENT – PLAN VIEW               |
| S02   | TYPICAL CONNECTION DETAILS                  |

### RECORD DRAWINGS

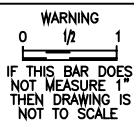
The Record Documents have been prepared based On information provided by others. David Evans and Associates, Inc. has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

### BENCH MARK

HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 – 91 ADJ. (NAD83/91), STATE PLANE COORDINATE SYSTEM (SPCS), OREGON NORTH ZONE.

VERTICAL DATUM: CITY OF PORTLAND DATUM (COP).  
TO CONVERT COP ELEVATIONS TO NGVD 29/47, SUBTRACT 1.38 FEET.  
TO CONVERT COP ELEVATIONS TO NAVD88, ADD 2.12 FEET.

**ATTENTION:** OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE CENTER BUSINESS NUMBER IS (503) 232-1987. ONE OF THE REQUIREMENTS OF THESE RULES IS THAT EXCAVATORS MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. TO COMPLY WITH THIS REQUIREMENT, CALL 246-6699 (IN THE LOCAL PORTLAND AREA) OR CALL 1-800-332-2344.



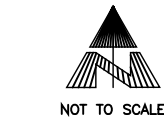
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|          |          |                  | ROTATION ANGLE:                | JAG         |             |
|          |          |                  | CONSTRUCTED BY                 | DRAWN BY    | PROGRAM MGR |
|          |          |                  | PROJECT COMPLETED              | EKB         |             |
|          |          |                  | MAP CORRECTED BY               | CHECKED BY  | CONST. MGR. |
|          |          |                  | CHECKED BY                     | POB         |             |
|          |          |                  | FINAL MAP DATA                 | DESIGN MGR. |             |
|          |          |                  | 7922G01.dwg, 05/04/05 at 15:14 |             |             |
| NO.      | DATE     | DESCRIPTION      | APPD.                          |             |             |
| 1        | 11/29/05 | "AS CONSTRUCTED" | JAG                            |             |             |
| REVISION |          |                  |                                |             |             |

CITY OF PORTLAND  
**ENVIRONMENTAL SERVICES**

APPROVAL

WILLIAM F. RYAN, P.E.  
CHIEF ENGINEER

ENVIRONMENTAL SERVICES CHIEF ENGINEER  
REG. PROF. ENGR. NO. 16301



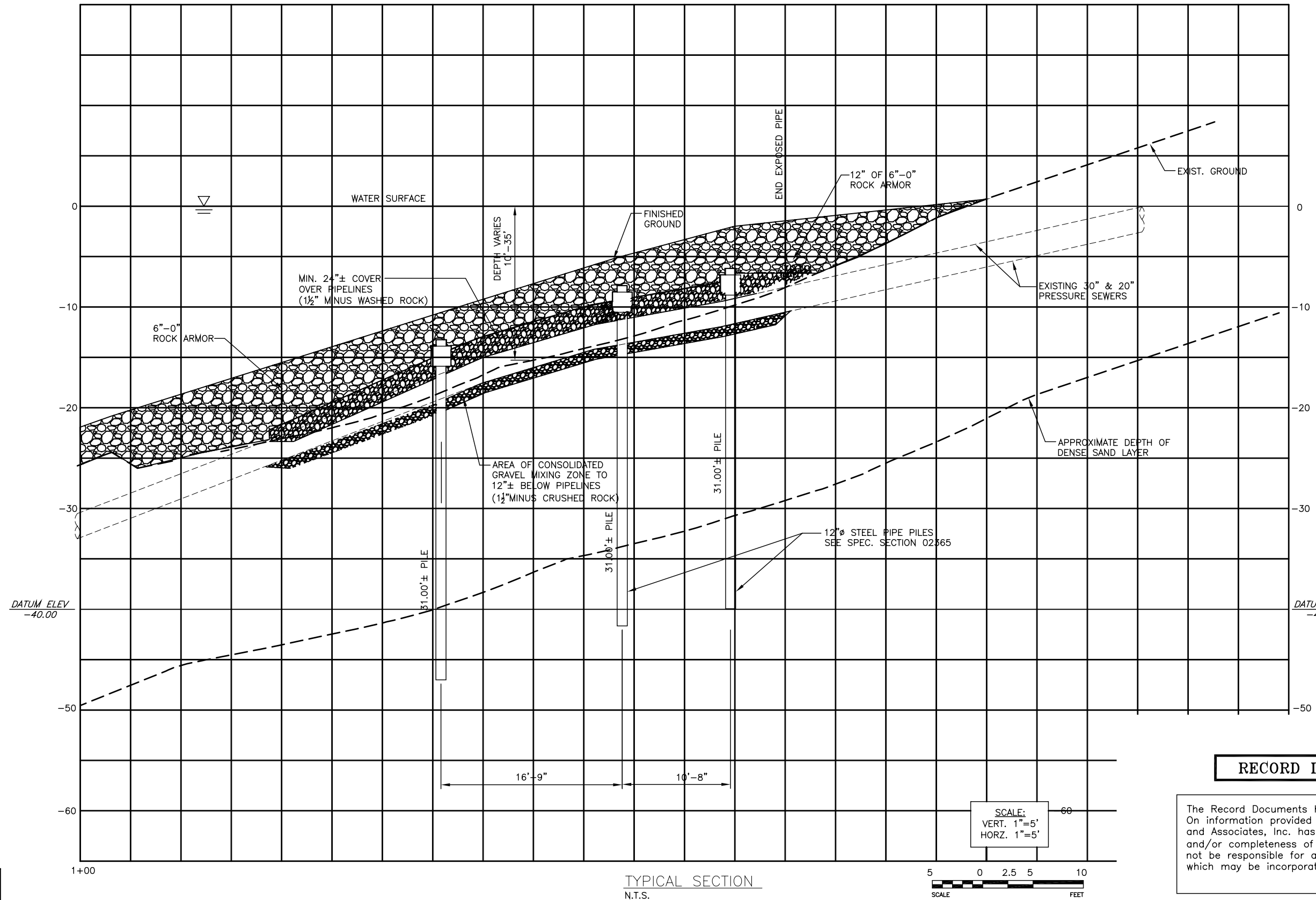
VICINITY MAP

GUILDS LAKE PUMP STATION  
PRESSURE LINE INVESTIGATION

COVER SHEET  
LEGEND, NOTES AND LOCATION MAP

|             |
|-------------|
| 1/4 SECTION |
| 2223        |
| JOB NO.     |
| 7922        |
| SHEET NO.   |
| G01         |
| 1 OF 6      |





NOTE:  
SEE DWG C01 FOR  
HORIZONTAL LOCATION  
INFORMATION

RECORD DRAWINGS

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WARNING  
0 1/2 1  
IF THIS BAR DOES  
NOT MEASURE 1"  
THEN DRAWING IS  
NOT TO SCALE

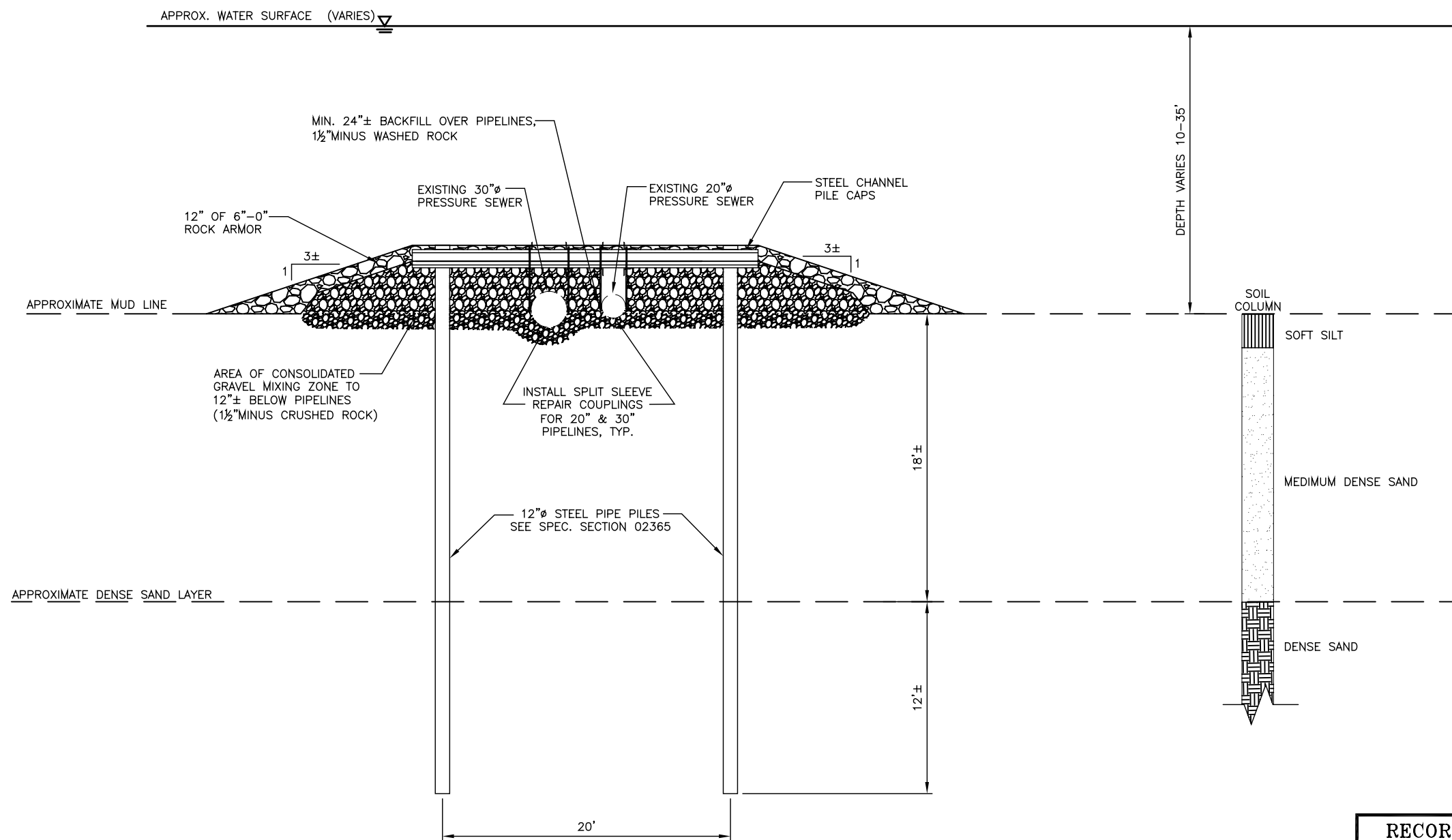
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|     |          | ROTATION ANGLE:                | JAG         |             |
|     |          | CONSTRUCTED BY                 | JAG         | PROGRAM MGR |
|     |          | PROJECT COMPLETED              | CHECKED BY  | CONST. MGR. |
|     |          | MAP CORRECTED BY               | DESIGN MGR. |             |
|     |          | CHECKED BY                     |             |             |
|     |          | FINAL MAP DATA                 |             |             |
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| 1   | 11/29/05 | "AS CONSTRUCTED"               | JAG         |             |
| NO. | DATE     | DESCRIPTION                    | APPD.       |             |
|     |          | REVISION                       |             |             |

CITY OF PORTLAND  
ENVIRONMENTAL SERVICES

GUILDS LAKE PUMP STATION  
PRESSURE LINE INVESTIGATION

TYPICAL PILE CAP & GRAVEL SECTION

1/4 SECTION  
2223  
JOB NO.  
7922  
SHEET NO.  
C02  
3 OF 6



TYPICAL SECTION  
N.T.S.

RECORD DRAWINGS

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WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

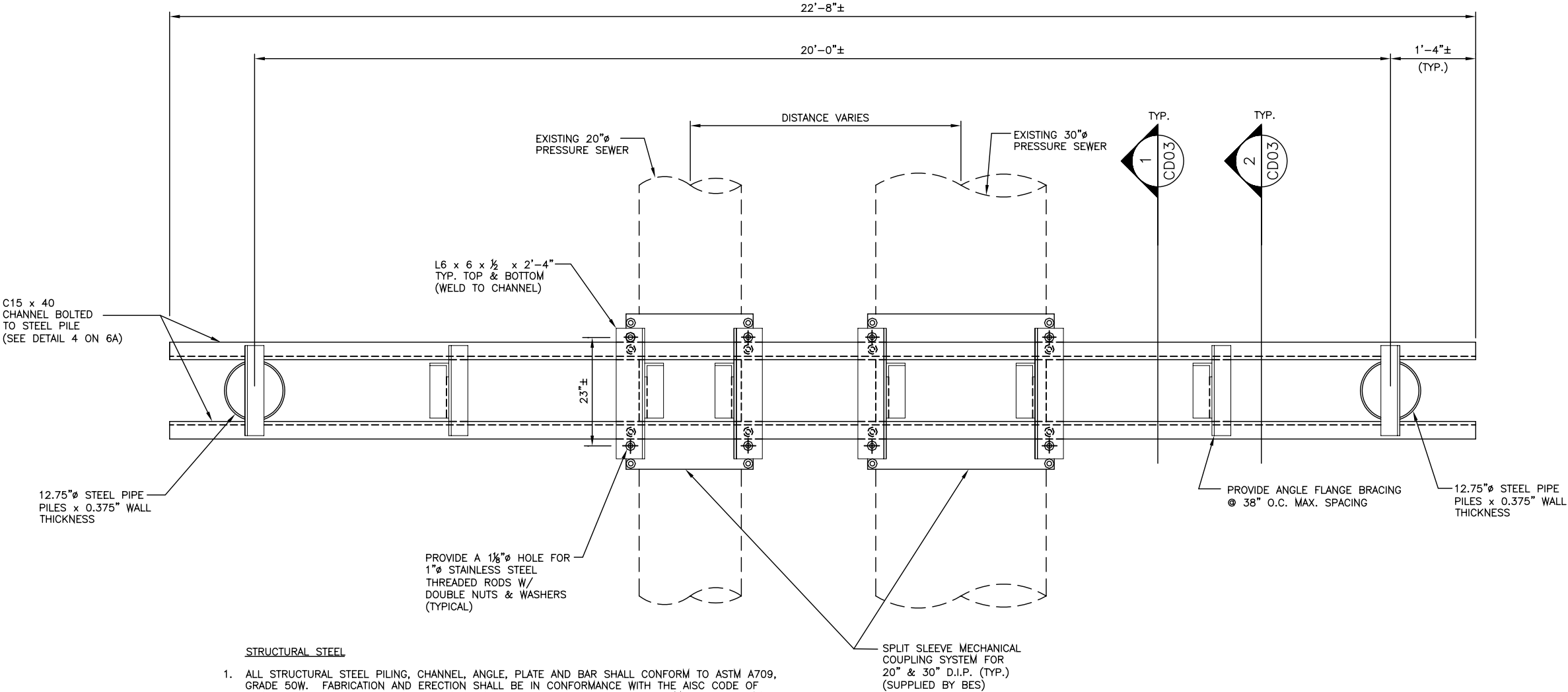
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|     |          |                  | ROTATION ANGLE: _____          | DRAWN BY _____         | PROGRAM MGR _____ |
|     |          |                  | CONSTRUCTED BY _____           | CHECKED BY _____       | CONST. MGR. _____ |
|     |          |                  | PROJECT COMPLETED _____        | MAP CORRECTED BY _____ | CHECKED BY _____  |
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CITY OF PORTLAND  
ENVIRONMENTAL SERVICES

GUILDS LAKE PUMP STATION  
PRESSURE LINE INVESTIGATION

TYPICAL SECTION WITH PILE CAPS

1/4 SECTION  
2223  
JOB NO.  
7922  
SHEET NO.  
C03  
4 OF 6



STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL PILING, CHANNEL, ANGLE, PLATE AND BAR SHALL CONFORM TO ASTM A709, GRADE 50W. FABRICATION AND ERECTION SHALL BE IN CONFORMANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. NO ATTEMPT HAS BEEN MADE TO DIFFERENTIATE BETWEEN SHOP AND FIELD WELDED CONNECTIONS. ALL WELDING IS TO COMPLY WITH AWS SPECIFICATIONS AND IS TO BE PERFORMED BY CERTIFIED WELDERS.
3. PROVIDE A  $\frac{3}{16}$ " WELD UNLESS A LARGER SIZE OF FILLET WELD IS SPECIFIED ON THE PLANS, BOLTED CONNECTIONS SHALL CONFORM TO ASTM F593, TYPE 316 STAINLESS STEEL.
4. ALL WELDING SHALL BE PREQUALIFIED PER AISC AND AWS D1.5 SPECIFICATIONS (AWS D3.6 WHEN WELDING OCCURS UNDERWATER). ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS BY ELECTRIC ARC PROCESS WITH E70XX ELECTRODES. SHOP WELDS SHALL BE PERFORMED IN THE SHOP OF AN APPROVED FABRICATOR.

TYPICAL PILE BENT — PLAN VIEW  
N.T.S.

RECORD DRAWINGS

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WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1/2 THEN DRAWING IS NOT TO SCALE

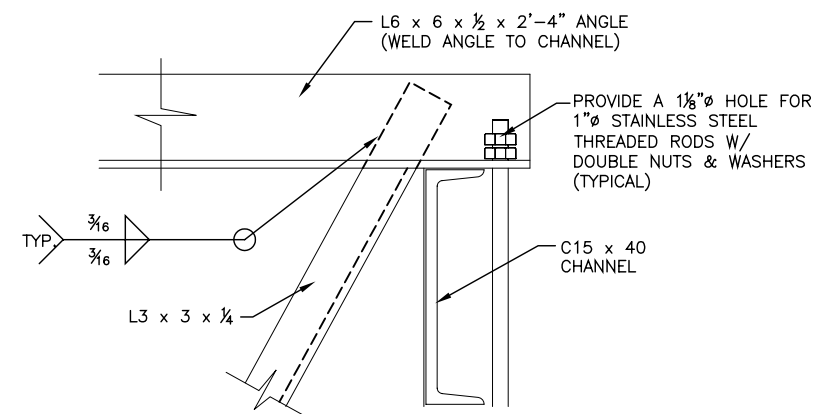
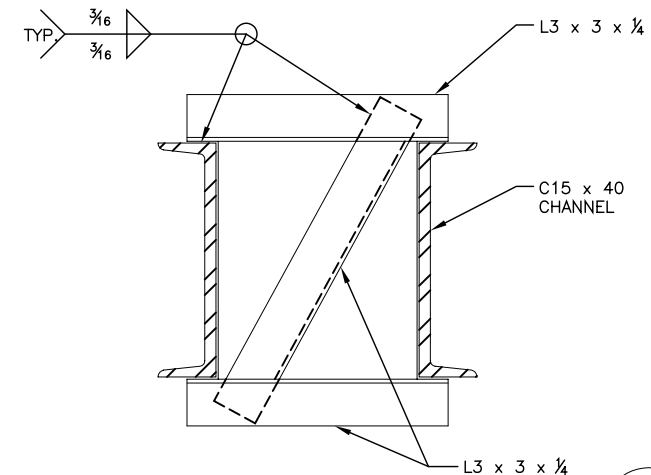
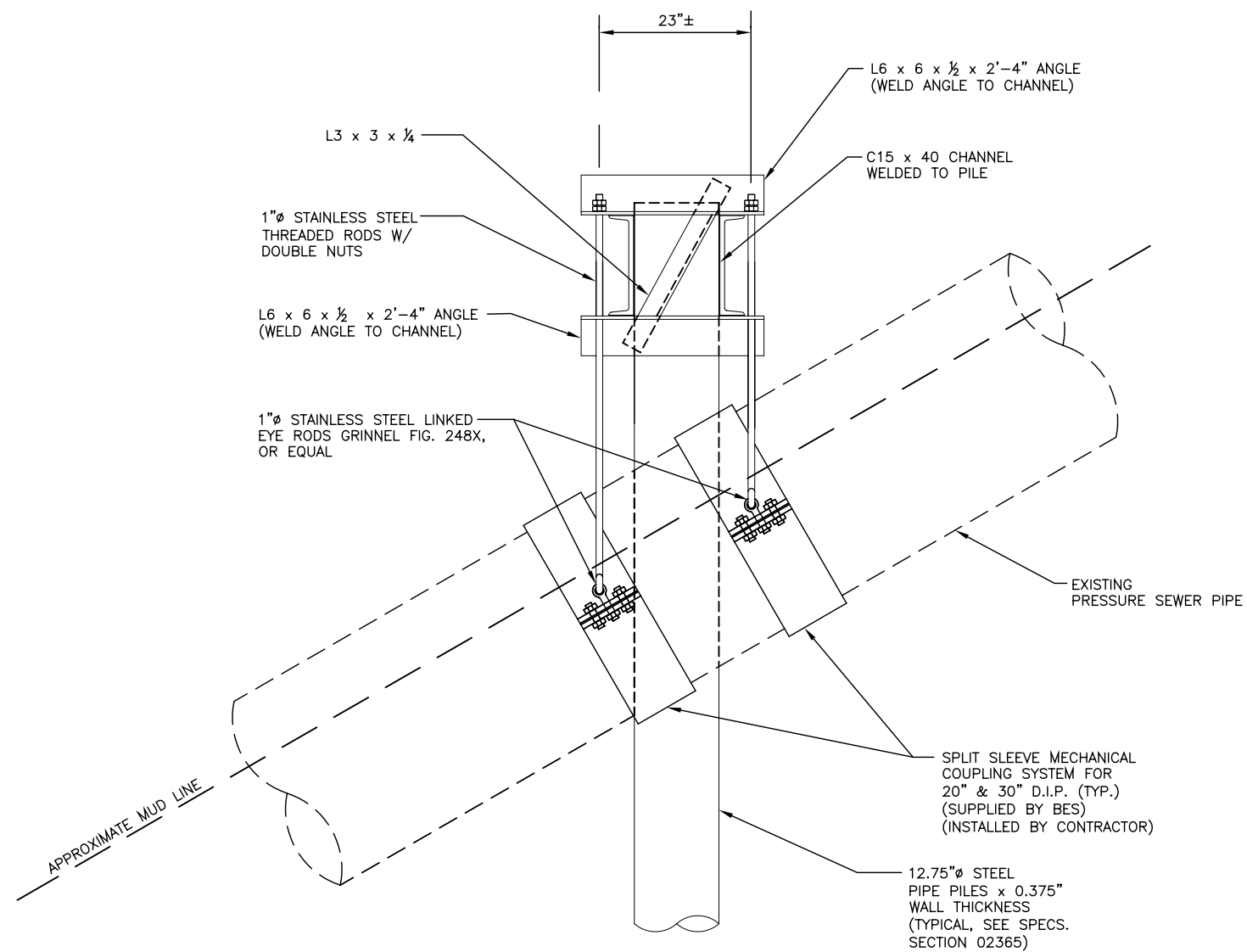
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|          |          |                  |       | XREF(S) USED:                  | DESIGNED BY | DATE APPD.  |
|          |          |                  |       | ROTATION ANGLE:                | JAG         |             |
|          |          |                  |       | CONSTRUCTED BY:                | DRAWN BY    | PROGRAM MGR |
|          |          |                  |       | PROJECT COMPLETED:             | JAG/KEB     |             |
|          |          |                  |       | MAP CORRECTED BY:              | CHECKED BY  | CONST. MGR. |
|          |          |                  |       | CHECKED BY:                    | DESIGN MGR. |             |
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| REVISION |          |                  |       |                                |             |             |

CITY OF PORTLAND  
ENVIRONMENTAL SERVICES

GUILDS LAKE PUMP STATION  
PRESSURE LINE INVESTIGATION

TYPICAL PILE BENT  
PLAN VIEW

1/4 SECTION  
2223  
JOB NO.  
7922  
SHEET NO.  
S01  
5 OF 6





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|          |          |                  |       |                                |                        |         |             |
|----------|----------|------------------|-------|--------------------------------|------------------------|---------|-------------|
|          |          |                  |       | XREF(S) USED: _____            | DESIGNED BY            | JAG     | DATE APPLD. |
|          |          |                  |       | ROTATION ANGLE: _____          | DRAWN BY               | JAG/EKE | PROGRAM MGR |
|          |          |                  |       | CONSTRUCTED BY _____           | CHECKED BY             | JAG     | CONST. MGR. |
|          |          |                  |       | PROJECT COMPLETED _____        | MAP CORRECTED BY _____ |         | PGE         |
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| REVISION |          |                  |       |                                |                        |         |             |

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ENVIRONMENTAL SERVICES

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GUILDS LAKE PUMP STATION  
PRESSURE LINE INVESTIGATION

## TYTPICAL CONNECTION DETAILS

|             |      |
|-------------|------|
| 1/4 SECTION | 2223 |
| JOB NO.     | 7922 |
| SHEET NO.   | S03  |
| 6A OF 6     |      |